



①9 BUNDESREPUBLIK
DEUTSCHLAND



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PATENT- UND
MARKENAMT

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⑦② Erfinder:
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Feldhaus Herrmann, Gerardo, Pedregal de San
Angel, MX

⑤⑥ Für die Beurteilung der Patentfähigkeit in Betracht
zu ziehende Druckschriften:

DE 298 08 635 U1
US 49 25 669 A1
WO 91 13 555 A1

Taylor
VELDMAN, A.: Effect of sorbentia on carry-over
of aflatoxin from cow feed to milk. In:

Milchwissenschaft 47, 12, 1992, S.777-780;

LEMKE, Shawna L., et.al.: Adsorption of
Zearalenone by Organophilic Montmorillonite
Clay. In: J. Agric. Food Chem. 1998, 46,
S.3789-3796;

FALBE, Jürgen, REGITZ, Manfred: Römpf Chemie
Lexikon, Georg Thieme Verlag, Stuttgart,
New York, 9. Aufl., 1992, S.3730, 3731;

Ullmanns Encyklopädie der technischen Chemie,
Verlag Chemie, Weinheim, et.al., 1977, Bd.23,
4. Aufl., S.315;

Die folgenden Angaben sind den vom Anmelder eingereichten Unterlagen entnommen

⑤④ Mykotoxin-Adsorbens

⑤⑦ Es werden Mykotoxin-Adsorbentien bereitgestellt, ent-
haltend ein organisch modifiziertes (organophiles)
Schichtsilicat, wobei zur Modifikation quaternäre Onium-
verbindungen mit mindestens einer langkettigen C₁₀- bis
C₂₂-Alkylgruppe und mindestens einem aromatischen
Substituenten verwendet werden, oder enthaltend ein
Gemisch aus einem nicht organisch modifizierten
Schichtsilicat und einem mindestens 75%, bezogen auf
die gesamte Kationenaustauschkapazität (KAK), orga-
nisch modifiziertem Schichtsilicat.

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DERWENT-ACC-NO: 2000-491766

DERWENT-WEEK: 200347

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TITLE: Mycotoxin adsorbents useful as food
additives contain an organophilic layered silicate
modified by a quaternary onium compound or a mixture of
organically non-modified and modified layered silicates

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PATENT-ASSIGNEE: SUED-CHEMIE AG[SUDC]

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DE 59905889 G		July 10, 2003	N/A
000	B01J	020/12	
DE 19900813 A1		July 13, 2000	N/A
007	B01J	020/16	
WO 200041806 A1		July 20, 2000	G
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EP 1150767 A1		November 7, 2001	G
000	B01J	020/12	
BR 9916884 A		November 27, 2001	N/A
000	B01J	020/12	
MX 2001005436 A1		December 1, 2001	N/A
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EP 1150767 B1		June 4, 2003	G
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
DE 59905889G	N/A	
1999DE-0505889	December 17, 1999	
DE 59905889G	N/A	
1999EP-0963580	December 17, 1999	
DE 59905889G	N/A	
1999WO-EP10088	December 17, 1999	
DE 59905889G	Based on	EP 1150767
N/A		
DE 59905889G	Based on	WO 200041806
N/A		
DE 19900813A1	N/A	
1999DE-1000813	January 12, 1999	
WO 200041806A1	N/A	
1999WO-EP10088	December 17, 1999	
EP 1150767A1	N/A	
1999EP-0963580	December 17, 1999	
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EP 1150767A1	Based on	WO 200041806
N/A		
BR 9916884A	N/A	
1999BR-0016884	December 17, 1999	
BR 9916884A	N/A	
1999WO-EP10088	December 17, 1999	
BR 9916884A	Based on	WO 200041806
N/A		
MX2001005436A1	N/A	
2001MX-0005436	May 30, 2001	
EP 1150767B1	N/A	
1999EP-0963580	December 17, 1999	
EP 1150767B1	N/A	
1999WO-EP10088	December 17, 1999	
EP 1150767B1	Based on	WO 200041806
N/A		

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 B01J020/16

ABSTRACTED-PUB-NO: DE 19900813A

BASIC-ABSTRACT:

NOVELTY - Mycotoxin adsorbents containing:

(i) an organophilic layered silicate modified by a quaternary onium compound having a long-chain 10-22C alkyl group and an aromatic substituent; or

(ii) a mixture of a non-organically modified layered silicate and up to 75%, based on the total cationic exchange capacity, of an organically-modified layered silicate.

USE - The adsorbent is used in adsorbing mycotoxins in foodstuffs (claimed).

ADVANTAGE - The adsorbents deal highly effectively and economically not only with aflatoxins but also with other important mycotoxins such as ochratoxin and zearalenone. They are also effective in the digestive tract.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: MYCOTOXIN ADSORB USEFUL FOOD ADDITIVE CONTAIN
ORGANOPHILIC LAYER
SILICATE MODIFIED QUATERNARY ONIUM COMPOUND
MIXTURE ORGANIC NON
MODIFIED MODIFIED LAYER

DERWENT-CLASS: D13 E13 E14

CPI-CODES: D03-H01B; E05-T; E06-A02C; E06-A02D; E06-A03;
E07-D09A; E10-A22G;
E11-Q02; E31-P02D;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

D013 D023 D130 H4 H401 H441 H8 J4 J431 J5
J521 L9 L942 M210 M211 M240 M281 M320 M412 M511
M520 M530 M540 M750 M904 M905 N163 Q220

Ring Index

01732

Specific Compounds

A10NTK A10NTX

Chemical Indexing M3 *02*

Fragmentation Code

D014 D023 D130 H4 H402 H442 H8 J5 J522 L9
L942 M210 M211 M240 M281 M320 M412 M511 M520 M530
M540 M750 M904 M905 N163 Q220

Ring Index

40640

Specific Compounds

14835K 14835X

Chemical Indexing M3 *03*

Fragmentation Code

D011 D021 D029 D240 H5 H541 H8 J5 J521 J561
L9 L942 M210 M211 M272 M281 M320 M412 M511 M520
M530 M540 M750 M904 M905 N163 Q220

Ring Index

13525

Specific Compounds

08213K 08213X

Chemical Indexing M3 *04*

Fragmentation Code

A100 A200 A220 A313 A940 B214 B701 B712 B720 B831
C108 C802 C803 C804 C805 C807 F011 F012 F013 F522
G010 G019 G100 H181 H182 H201 H202 K0 L7 L721
L722 M210 M211 M212 M213 M214 M215 M216 M220 M221
M222 M223 M224 M225 M226 M231 M232 M233 M240 M273
M281 M282 M283 M311 M320 M321 M322 M342 M373 M391
M392 M411 M510 M520 M521 M530 M531 M532 M540 M620
M782 M904 M905 N163 Q220 Q508 R043

Markush Compounds

200021-75802-K 200021-75802-R

Chemical Indexing M3 *05*

Fragmentation Code

A100 A200 A220 A313 A940 B114 B701 B712 B720 B831
C108 C802 C803 C804 C805 C807 M411 M782 M904 M905
N163 Q220 Q508 R043

Markush Compounds

200021-75801-K 200021-75801-R

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CPI Secondary Accession Numbers: C2000-147937